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A SUMMARY OF SEASONAL TEMPERATURE AND PRECIPITATION DATA FOR THE INTERIOR FORESTED AREA OF ALASKA

by

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INTRODUCTION

When studying tree growth or physiology in a natural forest environment we acknowledge many uncontrolled variables that may influence experimental results. Temperature, precipitation, wind, insolation, insects, and disease are examples. In forest research we often wish to interpret data with regard to the normality of these uncontrolled variables. For instance, how close to normal was precipitation during a season when growth of tree seedlings was studied? Was precipitation near average, thus indicating that study conditions might be considered normal, or was the quantity or pattern of rainfall so atypical that study results would be considered abnormal?

Growing season temperatures and precipitation were thought to be the two most important such variables in interior Alaska with which we, in forest research, were concerned. To evaluate our studies for normality we needed information on mean growing season temperatures and precipitation, and the magnitude of departure from these means. The following tabular data, summarized from United States Weather Bureau records, were prepared for this purpose. Biologists and others in related fields may find these summaries useful for a variety of purposes.

1/ The author was stationed at the Forestry Sciences Laboratory maintained in cooperation with the University of Alaska, College, Alaska. He wishes to acknowledge use of facilities at the University's Computer Center, supported by the National Science Foundation under Grant G-19984.

PERIOD OF RECORD

This entire summary is based on 16 years of record, 1946 through 1961, for each station, unless otherwise specified. Thirty-year and longer records are commonly used for standard climatic analyses. However, station information in interior Alaska is both short and sporadic and, therefore, a shorter period was used to achieve uniformity among stations. This 16-year period is sufficiently long to effectively distinguish temperature and precipitation patterns in the vicinity of the stations. It is not, however, long enough to permit one to note cyclic phenomena or rare climatic extremes.

The seasonal period, April 1 through October 31, was used for all stations; it was selected to fully encompass the time of physiological activity in forest trees. The seasonal period was then divided into five- or six-day periods to allow more detailed exposure of seasonal patterns in temperature and precipitation.

PROCEDURES

All weather data were supplied by the United States Weather Bureau. Most were on IBM punched cards (1009 daily weather record cards). Additional 1009 cards were punched at the University of Alaska to complete a record of 16 years for all stations.

Weather cards were processed on an electronic computer. Summations proceeded in chronological order from April 1 through October 31 for each year, 1946 through 1961.

Five- or six-day mean values were first computed for each of the following variables:

1. Mean daily temperature
2. Daily minimum and maximum temperatures
3. Dry days. 2/

Total accumulated values for five- or six-day intervals were computed for the following:

1. Snow on ground
2. Precipitation
3. Growing degree days. 3/

2/ Days with less than 0.01-inch of precipitation.

3/ As used in this publication, one growing degree day is accumulated for each 1°F. rise in temperature above a daily mean of 43°F. If, for instance, the daily mean is 53°F., 10 growing degrees would then be accumulated for that day.

Missing periods of temperature and precipitation were printed out by the computer. Summations for five- and six-day periods with single-day gaps were recomputed after substitution for the missing data. Single-day gaps in temperature were corrected by interpolation of the previous day's and next day's record. Gaps greater than a single day were deleted from further analysis. If precipitation was not accumulated in the rain gauge on the next day of the five-day period, precipitation for that period was omitted. The five-day summary cards for those periods were removed from the deck and an appropriate note made of the removal.

After all corrections were completed, summarized cards for each station were sorted to period intervals; that is, cards for April 1-5 from 1946-1961, April 6-10 from 1946-1961, etc., were put into the computer for analysis. Variables were analyzed by obtaining the mean and standard deviation for each period. Daily percentages of occurrence were calculated for dry days and precipitation periods. A listing was then made of the means, standard deviations, and percentages by period for each station.

Standard deviation has been used to show range of the basic data about the mean values. One standard deviation, which accounts for about two-thirds of the variation in a normally distributed population, was calculated as shown in the following example:

Year	Period: April 1-5	Period: April 6-10 ... October 26-31
	Temperature, °F.	
1946	28.8	
1947	30.8	
.	.	
.	.	
.	.	
1961	48.7	
Total (Σy_i)	510.0	
Mean ($\bar{y}$)	31.9	

$$s = \sqrt{\frac{\Sigma y_i^2 - \frac{(\Sigma y_i)^2}{n}}{n-1}} = \sqrt{\frac{681.68}{15}} = \pm 13.5$$

THE AREA

The interior forests of Alaska are part of the boreal forests characterized by the presence of four major tree species--white spruce, (Picea glauca (Moench) Voss), black spruce (Picea mariana (Moench) Voss), paper birch (Betula papyrifera Marsh.), and aspen (Populus tremuloides Michx). Generally, this forest in Alaska occurs north of 61° latitude and south of the Brooks Range (roughly 68°N), and extends westward from the Canadian border to about 160°W longitude. The 22 weather stations used fall within these broad limits (fig. 1). These stations do not necessarily represent those weather conditions found on the fringes of the interior Alaska forested area. For example, forested areas extend westward beyond the Aniak and Holy Cross stations (fig. 1). However, as previously mentioned, the deficiencies of weather records at some stations and the absence of records in other instances prevent such areas from becoming a part of the analysis shown in the following tables:

Station number [4]	Station name	Page
1	Aniak	6
2	Big Delta	8
3	Circle Hot Springs	10
4	Eagle	12
5	Flat	14
6	Fort Yukon	16
7	Galena	18
8	Gulkana	20
9	Holy Cross	22
10	Hughes	24
11	Iliamna	26
12	Kenai	28
13	Lake Minchumina	30
14	Manley Hot Springs	32
15	Matanuska Agricultural Experiment Station	34
16	McGrath	36
17	Nenana	38
18	Northway	40
19	Skwentna	42
20	Talkeetna	44
21	Tanana	46
22	University Agricultural Experiment Station	48
	Table 45.--Summary	50

[4] See figure 1, page 5, for location.

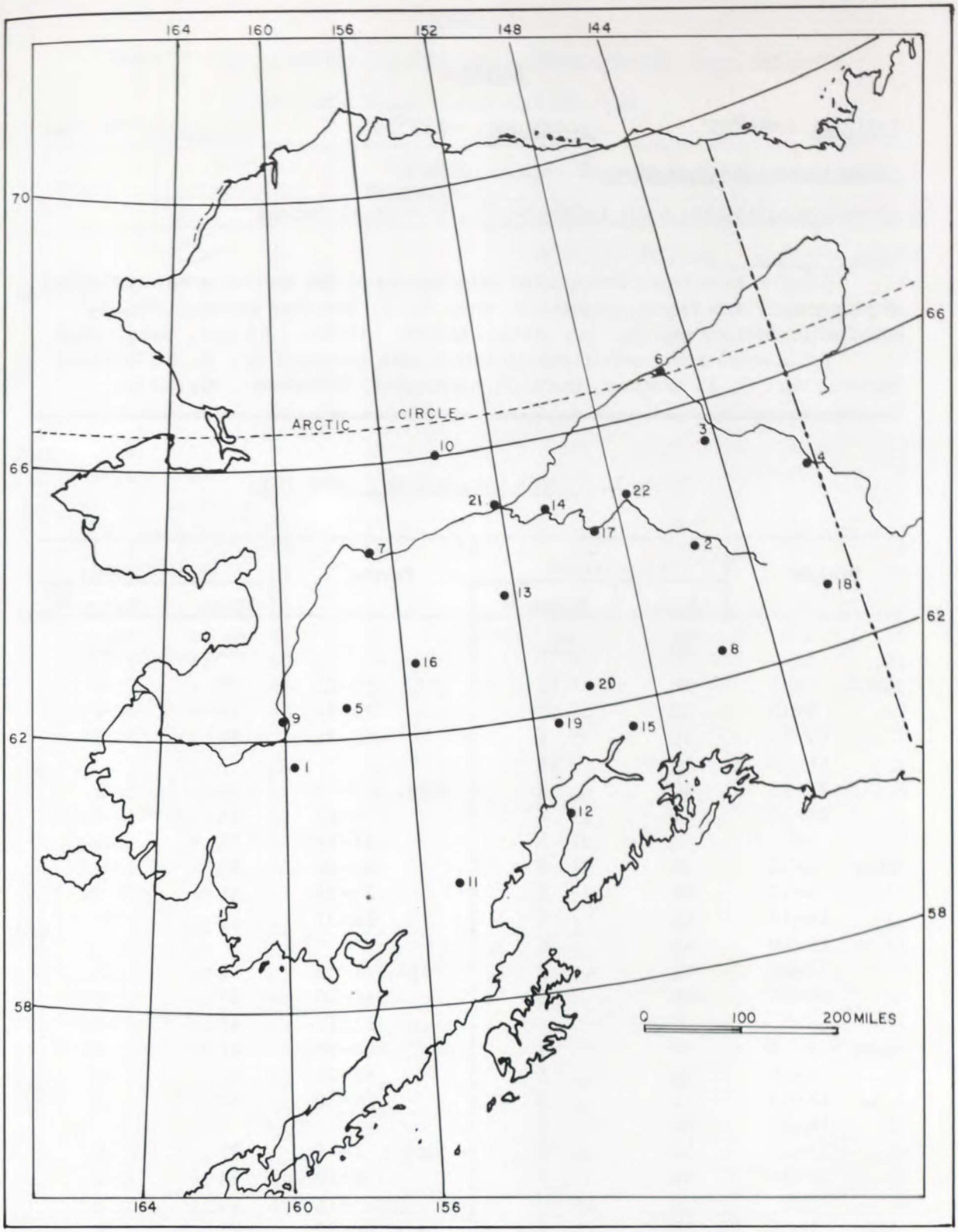

Figure 1.--Location of weather stations used in the summary.

ANIAK[5]

Latitude.--61°35' Longitude.--159°36' Elevation.--81 feet

Mean annual precipitation.[6]--20.24 inches

Mean precipitation, April 1-October 31.[6]--15.32 inches

5/ For additional descriptive information of the station area, including physiography and forest conditions, see: U. S. Weather Bureau. No. 1.1 substation history and no. 1.2 station history, Alaska. 85 pp., illus. 1958.

6/ Annual and monthly precipitation data provided by: U. S. Weather Bureau, Mr. C. E. Watson, State Climatologist, Anchorage, Alaska.

Table 1.--Mean temperature, 1946-1961

Period	Temperature		Period	Temperature	
	Mean	Range 1/		Mean	Range 1/
	°F.	°F.		°F.	°F.
April 1- 5	17	12	July 16-20	56	4
6-10	22	12	21-25	56	4
11-15	25	5	26-31	54	3
16-20	26	10			
21-25	31	8	Aug. 1- 5	53	2
26-30	34	7	6-10	54	3
			11-15	55	4
May 1- 5	35	8	16-20	53	3
6-10	40	6	21-25	51	3
11-15	42	4	26-31	50	4
16-20	46	4			
21-25	46	3	Sept. 1- 5	48	5
26-30	49	2	6-10	47	4
			11-15	45	4
June 1- 5	51	4	16-20	43	4
6-10	52	5	21-25	40	5
11-15	51	3	26-30	40	5
16-20	55	3			
21-25	53	4	Oct. 1- 5	37	6
26-30	53	4	6-10	34	4
			11-15	29	7
July 1- 5	55	4	16-20	27	8
6-10	55	3	21-25	26	7
11-15	57	5	26-31	23	9

1/ Range--one standard deviation.

Table 2.--Mean extreme temperatures, growing degree days, dry days, and precipitation by periods, 1946-1961

Period		Mean temperatures		Growing degree days		Dry days		Precipitation	
		Min.	Max.	Mean	Range 1/	Mean	Range 1/	Mean	Range 1/
		°F.	°F.			Percent	Percent	Inches	Inches
April	1- 5	5	28	0	0	84	24	.06	.12
	6-10	12	32	0	0	69	23	.06	.08
	11-15	16	34	0	0	74	28	.11	.14
	16-20	16	36	0	0	82	28	.08	.15
	21-25	22	40	0	1	69	29	.13	.19
	26-30	26	43	1	3	80	21	.09	.13
May	1- 5	25	44	1	2	71	25	.09	.15
	6-10	29	49	6	10	75	22	.07	.09
	11-15	33	51	9	12	75	22	.14	.26
	16-20	35	56	18	15	65	24	.18	.18
	21-25	36	55	18	13	74	25	.16	.23
	26-31	39	59	36	14	67	24	.25	.33
June	1- 5	40	62	40	21	74	25	.14	.17
	6-10	42	62	45	23	71	26	.24	.33
	11-15	42	60	40	15	58	25	.52	.81
	16-20	44	65	58	17	74	19	.22	.30
	21-25	43	62	50	20	58	32	.28	.40
	26-30	43	63	51	21	68	27	.23	.27
July	1- 5	45	64	59	21	52	35	.39	.38
	6-10	46	65	62	15	60	24	.23	.30
	11-15	47	67	70	27	61	31	.31	.34
	16-20	47	65	65	20	54	27	.39	.37
	21-25	47	64	64	18	56	33	.33	.29
	26-31	45	61	64	17	42	34	.71	.51
Aug.	1- 5	45	61	52	12	31	29	.72	.55
	6-10	45	63	57	15	42	29	.58	.59
	11-15	47	63	60	20	49	30	.68	.75
	16-20	46	60	49	16	39	28	.90	.93
	21-25	43	59	41	15	30	29	.95	.62
	26-31	42	56	42	22	30	24	1.16	.94
Sept.	1- 5	40	56	26	23	46	24	.42	.39
	6-10	39	55	25	17	32	25	.84	.52
	11-15	37	53	15	15	46	32	.43	.56
	16-20	36	51	13	9	49	32	.46	.46
	21-25	31	48	5	7	61	38	.38	.50
	26-30	32	47	6	8	44	28	.86	1.12
Oct.	1- 5	29	44	3	6	55	29	.29	.28
	6-10	27	39	1	2	69	21	.16	.20
	11-15	22	35	0	1	66	28	.22	.41
	16-20	20	34	0	1	65	35	.16	.27
	21-25	19	33	0	0	69	23	.14	.21
	26-31	16	30	0	0	57	28	.34	.45

1/ Range--one standard deviation.

BIG DELTA[5/]

Latitude.--64°00' Longitude.--145°44' Elevation.--1,268 feet

Mean annual precipitation.[6/]--11.60 inches

Mean precipitation, April 1-October 31.[6/]--9.83 inches

5/, 6/ See page 6.

Table 3.--Mean temperature, 1946-1961

Period	Temperature		Period	Temperature	
	Mean	Range[1/]		Mean	Range[1/]
	°F.	°F.		°F.	°F.
April 1- 5	20	10	July 16-20	61	3
6-10	25	8	21-25	60	4
11-15	29	4	26-31	58	4
16-20	30	11			
21-25	34	8	Aug. 1- 5	57	4
26-30	38	7	6-10	58	4
			11-15	57	5
May 1- 5	39	6	16-20	55	4
6-10	44	5	21-25	53	5
11-15	45	4	26-31	51	5
16-20	50	2			
21-25	51	5	Sept. 1- 5	49	6
26-31	52	4	6-10	48	4
			11-15	47	4
June 1- 5	56	6	16-20	42	5
6-10	58	4	21-25	39	6
11-15	56	5	26-30	36	5
16-20	59	5			
21-25	57	5	Oct. 1- 5	34	5
26-30	58	6	6-10	29	9
			11-15	24	9
July 1- 5	59	5	16-20	24	8
6-10	60	4	21-25	21	8
11-15	61	5	26-31	19	10

1/ Range--one standard deviation.

BIG DELTA

Table 4.--Mean extreme temperatures, growing degree days, dry days, and precipitation by periods, 1946-1961

Period	Mean temperatures		Growing degree days		Dry days		Precipitation	
	Min.	Max.	Mean	Range 1/	Mean	Range 1/	Mean	Range 1/
	°F.	°F.			Percent	Percent	Inches	Inches
April 1- 5	9	31	0	0	79	28	.06	.14
6-10	15	36	0	1	79	27	.10	.30
11-15	18	38	0	0	82	25	.03	.05
16-20	20	40	1	3	89	14	.02	.05
21-25	24	43	1	2	89	19	.02	.03
26-30	29	47	7	14	91	12	.01	.02
May 1- 5	30	48	7	10	92	10	.03	.06
6-10	33	54	14	14	81	24	.09	.15
11-15	35	54	16	12	90	18	.04	.06
16-20	39	60	34	11	82	20	.25	.42
21-25	42	60	42	24	68	25	.21	.23
26-31	42	62	56	24	67	22	.36	.48
June 1- 5	45	66	64	31	76	22	.16	.18
6-10	46	69	74	22	76	29	.10	.15
11-15	46	65	64	25	55	31	.43	.72
16-20	49	69	81	25	66	29	.38	.46
21-25	48	65	69	22	52	32	.80	1.04
26-30	49	67	77	26	56	28	.49	.53
July 1- 5	50	68	82	24	56	26	.53	.63
6-10	50	70	87	19	72	27	.27	.39
11-15	50	72	91	24	72	20	.28	.32
16-20	51	70	89	15	59	27	.45	.37
21-25	50	69	83	22	62	22	.26	.24
26-31	50	56	92	26	51	24	.68	.71
Aug. 1- 5	48	66	71	22	68	31	.23	.33
6-10	48	68	75	22	55	31	.35	.30
11-15	47	66	68	27	59	28	.42	.32
16-20	45	64	60	23	65	30	.23	.26
21-25	43	61	50	22	59	27	.37	.38
26-31	42	60	51	29	57	26	.50	.46
Sept. 1- 5	41	57	35	27	62	33	.36	.52
6-10	38	57	29	17	82	22	.20	.37
11-15	38	55	23	18	60	27	.22	.20
16-20	33	50	12	14	69	21	.21	.22
21-25	31	46	6	9	70	21	.12	.12
26-30	28	43	4	6	69	24	.11	.14
Oct. 1- 5	27	40	2	4	66	31	.12	.15
6-10	22	36	1	3	76	23	.06	.07
11-15	17	31	0	0	66	26	.09	.09
16-20	16	30	0	1	69	31	.12	.16
21-25	15	27	0	0	72	25	.08	.12
26-31	12	26	0	0	69	30	.13	.22

1/ Range--one standard deviation.

CIRCLE HOT SPRINGS[5/]

Latitude.--65°29' Longitude.--144°34' Elevation.--1,000 feet

Mean annual precipitation.[6/]--9.92 inches

Mean precipitation, April 1-October 31.[6/]--8.16 inches

5/, 6/ See page 6.

Table 5 --Mean temperature, 1946-1961

Period	Temperature		Period	Temperature	
	Mean	Range[1/]		Mean	Range[1/]
	°F.	°F.		°F.	°F.
April 1- 5	13	10	July 16-20	62	3
6-10	20	8	21-25	60	5
11-15	21	9	26-31	59	4
16-20	24	10			
21-25	30	7	Aug. 1- 5	57	4
26-30	34	6	6-10	58	4
			11-15	56	5
May 1- 5	35	6	16-20	54	4
6-10	41	5	21-25	53	4
11-15	42	5	26-31	50	4
16-20	48	3			
21-25	50	4	Sept. 1- 5	48	5
26-31	52	4	6-10	47	6
			11-15	45	4
June 1- 5	54	6	16-20	40	3
6-10	57	4	21-25	35	5
11-15	57	3	26-30	32	5
16-20	59	4			
21-25	58	4	Oct. 1- 5	30	5
26-30	59	4	6-10	25	6
			11-15	20	7
July 1- 5	61	4	16-20	17	8
6-10	61	2	21-25	13	9
11-15	61	4	26-31	13	9

1/ Range--one standard deviation.

CIRCLE HOT SPRINGS

Table 6.--Mean extreme temperatures, growing degree days, dry days, and precipitation by periods, 1946-1961

Period		Mean temperatures		Growing degree days		Dry days		Precipitation	
		Min.	Max.	Mean	Range 1/	Mean	Range 1/	Mean	Range 1/
		°F.	°F.			Percent	Percent	Inches	Inches
April	1- 5	1	25	0	0	69	31	.08	.11
	6-10	6	33	0	0	79	25	.04	.06
	11-15	7	34	0	0	81	14	.04	.04
	16-20	10	37	0	0	86	14	.04	.06
	21-25	18	43	1	1	84	20	.07	.09
	26-30	22	45	3	6	80	22	.05	.08
May	1- 5	23	47	1	3	84	23	.05	.08
	6-10	28	53	7	12	86	17	.08	.16
	11-15	28	55	11	11	78	23	.08	.11
	16-20	34	61	25	14	74	32	.08	.12
	21-25	38	63	37	21	58	27	.24	.28
	26-31	38	65	52	23	64	23	.21	.25
June	1- 5	40	68	59	30	64	32	.12	.14
	6-10	42	70	69	20	74	28	.11	.17
	11-15	44	69	70	14	62	28	.28	.33
	16-20	46	72	81	22	60	36	.24	.36
	21-25	46	69	75	21	48	28	.32	.34
	26-30	47	71	80	21	43	28	.64	.86
July	1- 5	49	72	88	21	48	30	.41	.36
	6-10	48	73	89	12	52	30	.31	.39
	11-15	47	75	91	20	64	34	.35	.63
	16-20	49	73	93	16	50	18	.28	.21
	21-25	48	72	86	26	61	31	.20	.27
	26-31	47	59	95	23	43	28	.58	.60
Aug.	1- 5	45	69	71	19	66	19	.10	.09
	6-10	45	70	74	18	60	23	.32	.51
	11-15	44	68	66	23	59	26	.50	.60
	16-20	42	66	57	20	58	25	.25	.22
	21-25	41	64	50	21	56	30	.19	.22
	26-31	39	61	45	25	56	28	.34	.33
Sept.	1- 5	37	58	26	22	55	28	.20	.26
	6-10	36	57	26	21	56	26	.18	.23
	11-15	36	54	16	12	48	29	.27	.32
	16-20	32	48	5	6	54	31	.26	.37
	21-25	27	43	1	2	56	26	.24	.25
	26-30	24	39	0	0	69	26	.17	.18
Oct.	1- 5	22	37	0	1	72	32	.15	.22
	6-10	18	31	0	0	69	26	.13	.14
	11-15	14	26	0	0	51	27	.13	.13
	16-20	10	24	0	0	61	31	.16	.20
	21-25	6	20	0	0	74	29	.08	.11
	26-31	7	20	0	0	61	28	.18	.21

1/ Range--one standard deviation.

EAGLE[5/]

Latitude.--64°46' Longitude.--141°12' Elevation.--825 feet

Mean annual precipitation.[6/]--10.71 inches

Mean precipitation, April 1-October 31.[6/]--8.55 inches

5/, 6/ See page 6.

Table 7.--Mean temperature, 1946-1961

Period	Temperature		Period	Temperature	
	Mean	Range 1/		Mean	Range 1/
	°F.	°F.		°F.	°F.
April 1- 5	16	9	July 16-20	62	3
6-10	22	7	21-25	60	5
11-15	24	7	26-31	59	5
16-20	28	10			
21-25	31	6	Aug. 1- 5	57	5
26-30	36	6	6-10	57	4
			11-15	56	4
May 1- 5	37	5	16-20	54	3
6-10	42	3	21-25	52	5
11-15	41	6	26-31	50	4
16-20	47	4			
21-25	51	4	Sept. 1- 5	47	4
26-31	51	5	6-10	47	5
			11-15	47	3
June 1- 5	54	6	16-20	41	4
6-10	56	4	21-25	39	4
11-15	56	3	26-30	36	5
16-20	58	4			
21-25	57	4	Oct. 1- 5	34	3
26-30	58	4	6-10	28	7
			11-15	24	7
July 1- 5	59	4	16-20	22	9
6-10	61	3	21-25	20	10
11-15	60	4	26-31	18	10

1/ Range--one standard deviation.

Table 8.--Mean extreme temperatures, growing degree days, dry days, and precipitation by periods, 1946-1961

Period		Mean temperatures		Growing degree days		Dry days		Precipitation	
		Min.	Max.	Mean	Range 1/	Mean	Range 1/	Mean	Range 1/
		°F.	°F.			Percent	Percent	Inches	Inches
April	1- 5	1	32	0	0	81	20	.06	.06
	6-10	7	37	0	1	90	27	.04	.11
	11-15	10	38	0	0	87	22	.09	.17
	16-20	14	41	0	2	92	13	.04	.10
	21-25	17	44	0	1	92	13	.02	.05
	26-30	23	49	4	7	92	13	.05	.13
May	1- 5	25	49	2	5	88	13	.05	.07
	6-10	29	55	7	10	88	15	.06	.13
	11-15	28	54	10	14	87	13	.12	.18
	16-20	32	62	24	14	87	17	.08	.14
	21-25	38	63	39	18	73	30	.27	.31
	26-31	37	64	48	27	71	22	.29	.40
June	1- 5	39	68	57	31	78	26	.14	.21
	6-10	41	71	68	19	78	17	.22	.19
	11-15	43	69	67	16	58	32	.47	.49
	16-20	43	72	73	19	66	29	.24	.26
	21-25	45	69	71	21	54	28	.37	.41
	26-30	46	71	77	19	68	26	.25	.31
July	1- 5	46	72	80	21	54	32	.38	.31
	6-10	48	73	88	17	57	28	.29	.23
	11-15	46	75	88	20	76	21	.28	.36
	16-20	50	74	96	16	57	21	.39	.31
	21-25	47	72	84	24	56	33	.53	.58
	26-31	47	71	98	28	57	30	.35	.28
Aug.	1- 5	44	70	72	23	73	26	.20	.24
	6-10	43	71	72	19	64	32	.35	.42
	11-15	43	69	66	21	59	22	.45	.35
	16-20	41	67	56	17	57	27	.46	.61
	21-25	40	64	48	22	67	26	.30	.27
	26-31	37	62	43	24	64	24	.30	.21
Sept.	1- 5	35	59	24	18	64	30	.21	.27
	6-10	35	58	23	17	78	15	.12	.12
	11-15	36	57	22	11	55	28	.33	.24
	16-20	31	51	7	9	61	21	.40	.45
	21-25	30	48	5	5	73	25	.21	.27
	26-30	27	43	3	5	75	28	.13	.22
Oct.	1- 5	24	42	1	3	73	20	.18	.18
	6-10	19	37	0	0	80	25	.20	.35
	11-15	16	32	0	0	79	19	.15	.14
	16-20	13	30	0	0	73	29	.14	.21
	21-25	11	28	0	0	79	21	.13	.16
	26-31	10	26	0	0	78	16	.16	.19

1/ Range--one standard deviation.

FLAT [5]

Latitude.--62°29' Longitude.--158°05' Elevation.--326 feet

Mean annual precipitation.[6]--16.88 inches

Mean precipitation, April 1-October 31.[6]--13.41 inches

[5], [6] See page 6.

Table 9.--Mean temperature, 1946-1961

Period	Temperature		Period	Temperature	
	Mean	Range [1]		Mean	Range [1]
	°F.	°F.		°F.	°F.
April 1- 5	16	12	July 16-20	58	4
6-10	23	10	21-25	58	4
11-15	25	5	26-31	55	4
16-20	27	10			
21-25	33	6	Aug. 1- 5	54	2
26-30	35	6	6-10	56	2
			11-15	56	5
May 1- 5	37	6	16-20	54	4
6-10	41	7	21-25	52	3
11-15	43	4	26-31	51	4
16-20	46	5			
21-25	47	3	Sept. 1- 5	48	5
26-31	50	3	6-10	47	5
			11-15	46	3
June 1- 5	52	5	16-20	44	4
6-10	55	5	21-25	38	6
11-15	53	4	26-30	38	5
16-20	56	3			
21-25	55	4	Oct. 1- 5	36	6
26-30	56	4	6-10	33	6
			11-15	28	6
July 1- 5	57	4	16-20	24	9
6-10	57	4	21-25	24	8
11-15	59	6	26-31	21	10

[1] Range--one standard deviation.

Table 10.--Mean extreme temperatures, growing degree days, dry days, and precipitation by periods, 1946-1961

Period		Mean temperatures		Growing degree days		Dry days		Precipitation	
		Min.	Max.	Mean	Range 1/	Mean	Range 1/	Mean	Range 1/
		°F.	°F.			Percent	Percent	Inches	Inches
April	1- 5	3	28	0	0	83	31	.05	.14
	6-10	12	33	0	0	82	22	.08	.11
	11-15	13	36	0	0	92	10	.02	.03
	16-20	16	37	0	0	88	10	.09	.16
	21-25	24	42	0	1	80	21	.10	.17
	26-30	24	46	2	5	90	19	.04	.10
May	1- 5	26	48	3	5	83	26	.07	.14
	6-10	29	52	9	12	84	19	.08	.14
	11-15	32	53	10	11	80	30	.09	.19
	16-20	34	57	19	18	83	22	.12	.20
	21-25	36	58	23	13	74	23	.18	.21
	26-31	38	62	43	17	81	18	.14	.20
June	1- 5	39	65	46	27	78	26	.15	.22
	6-10	43	66	59	26	60	32	.41	.38
	11-15	42	64	50	21	48	32	.36	.33
	16-20	42	68	64	17	82	21	.13	.22
	21-25	43	66	59	18	66	30	.51	.91
	26-30	44	68	66	20	78	32	.16	.24
July	1- 5	46	69	72	18	60	24	.39	.33
	6-10	46	69	72	20	74	22	.12	.14
	11-15	47	70	80	29	66	36	.18	.22
	16-20	46	68	73	21	60	26	.41	.36
	21-25	46	69	75	19	62	19	.40	.28
	26-31	45	51	72	26	37	26	.70	.46
Aug.	1- 5	45	63	56	12	37	27	.66	.42
	6-10	46	65	64	10	55	27	.44	.37
	11-15	47	65	64	24	51	28	.47	.37
	16-20	44	63	55	20	45	27	.68	.60
	21-25	43	60	45	14	40	39	.77	.78
	26-31	43	58	49	24	36	14	.85	.64
Sept.	1- 5	39	56	26	21	51	29	.38	.30
	6-10	39	55	26	22	31	24	.58	.35
	11-15	37	54	18	14	54	29	.32	.49
	16-20	34	52	14	11	57	23	.37	.41
	21-25	28	48	5	6	72	28	.40	.62
	26-30	29	46	6	9	58	35	.48	.50
Oct.	1- 5	27	44	3	5	58	34	.28	.25
	6-10	25	40	0	1	72	25	.17	.26
	11-15	20	35	0	0	71	31	.17	.33
	16-20	15	32	0	0	83	18	.07	.10
	21-25	16	32	0	1	78	22	.14	.31
	26-31	13	29	0	0	70	30	.21	.46

1/ Range--one standard deviation.

FORT YUKON[5]

Latitude.--66°35' Longitude.--145°18' Elevation.--419 feet

Mean annual precipitation.[6]--6.52 inches

Mean precipitation, April 1-October 31.[6]--4.53 inches

5/, 6/ See page 6.

Table 11.--Mean temperature, 1946-1961

Period	Temperature		Period	Temperature	
	Mean	Range[1]		Mean	Range[1]
	°F.	°F.		°F.	°F.
April 1- 5	10	9	July 16-20	63	3
6-10	16	8	21-25	61	6
11-15	17	8	25-31	60	4
16-20	21	10			
21-25	27	8	Aug. 1- 5	58	3
26-30	31	7	6-10	59	4
			11-15	56	5
May 1- 5	33	7	16-20	55	5
6-10	39	6	21-25	52	5
11-15	41	6	26-31	50	5
16-20	47	3			
21-25	49	5	Sept. 1- 5	48	5
26-31	52	4	6-10	47	7
			11-15	44	4
June 1- 5	56	6	16-20	40	3
6-10	57	4	21-25	35	5
11-15	58	3	26-30	31	5
16-20	60	4			
21-25	60	5	Oct. 1- 5	30	6
26-30	61	5	6-10	26	7
			11-15	20	6
July 1- 5	62	5	16-20	18	7
6-10	62	3	21-25	13	9
11-15	63	4	26-31	10	10

1/ Range--one standard deviation.

Table 12.--Mean extreme temperatures, growing degree days, dry days, and precipitation by periods, 1946-1961

Period		Mean temperatures		Growing degree days		Dry days		Precipitation	
		Min.	Max.	Mean	Range 1/	Mean	Range 1/	Mean	Range 1/
		°F.	°F.			Percent	Percent	Inches	Inches
April	1- 5	-2	22	0	0	82	20	.07	.11
	6-10	3	28	0	0	85	17	.04	.06
	11-15	4	30	0	0	82	27	.05	.09
	16-20	8	34	0	0	86	16	.02	.03
	21-25	14	39	0	1	91	14	.03	.08
	26-30	18	43	2	4	91	10	.03	.04
May	1- 5	22	44	1	3	89	14	.04	.07
	6-10	27	50	5	10	89	19	.04	.11
	11-15	28	53	8	10	93	12	.02	.05
	16-20	34	59	22	13	90	16	.03	.07
	21-25	37	61	33	24	82	18	.07	.10
	26-31	40	63	55	22	84	19	.08	.14
June	1- 5	44	68	67	30	89	16	.02	.06
	6-10	45	69	71	22	92	10	.05	.12
	11-15	47	69	76	14	74	23	.13	.20
	16-20	49	71	86	22	82	22	.06	.09
	21-25	49	69	83	24	76	22	.12	.12
	26-30	49	72	88	25	76	26	.12	.24
July	1- 5	51	73	95	27	82	16	.05	.06
	6-10	50	72	93	16	75	26	.14	.26
	11-15	51	75	101	22	84	17	.10	.13
	16-20	51	74	100	15	82	19	.05	.08
	21-25	49	73	92	29	85	20	.17	.40
	26-31	49	70	101	27	69	25	.19	.28
Aug.	1- 5	47	68	75	17	80	21	.06	.08
	6-10	47	71	81	20	86	20	.12	.28
	11-15	45	68	67	25	69	25	.22	.25
	16-20	44	66	60	25	68	27	.21	.26
	21-25	41	63	49	22	72	20	.22	.31
	26-31	39	61	46	27	71	25	.14	.14
Sept.	1- 5	37	59	28	22	76	24	.07	.11
	6-10	37	56	22	0	67	26	.13	.17
	11-15	34	53	14	12	64	28	.21	.24
	16-20	31	48	4	5	64	28	.20	.24
	21-25	26	43	1	2	70	21	.14	.11
	26-30	22	39	0	0	75	29	.12	.25
Oct.	1- 5	21	37	0	0	70	34	.06	.07
	6-10	18	32	0	0	70	25	.08	.13
	11-15	13	26	0	0	55	27	.10	.06
	16-20	10	25	0	0	64	29	.16	.22
	21-25	4	20	0	0	72	27	.09	.10
	26-31	2	18	0	0	64	32	.13	.14

1/ Range--one standard deviation.

GALENA[5/]

Latitude.--64°43' Longitude.--156°54' Elevation.--120 feet

Mean annual precipitation.[6/]--12.50 inches

Mean precipitation, April 1-October 31.[6/]--9.19 inches

5/, 6/ See page 6.

Table 13.--Mean temperature, 1946-1961

Period	Temperature		Period	Temperature	
	Mean	Range[1/]		Mean	Range[1/]
	°F.	°F.		°F.	°F.
April 1- 5	14	11	July 16-20	60	4
6-10	20	12	21-25	60	6
11-15	21	6	26-31	58	5
16-20	26	8			
21-25	28	8	Aug. 1- 5	56	3
26-30	32	9	6-10	57	2
			11-15	56	4
May 1- 5	33	9	16-20	55	4
6-10	39	8	21-25	53	4
11-15	42	5	26-31	50	4
16-20	48	4			
21-25	49	4	Sept. 1- 5	49	4
26-31	53	3	6-10	47	4
			11-15	46	3
June 1- 5	56	5	16-20	42	4
6-10	58	5	21-25	38	5
11-15	57	5	26-30	36	4
16-20	60	5			
21-25	57	6	Oct. 1- 5	34	6
26-30	58	5	6-10	31	5
			11-15	25	6
July 1- 5	60	4	16-20	23	8
6-10	59	4	21-25	19	10
11-15	61	6	26-31	16	9

1/ Range--one standard deviation.

Table 14.--Mean extreme temperatures, growing degree days, dry days, and precipitation by periods, 1946-1961

Period		Mean temperatures		Growing degree days		Dry days		Precipitation	
		Min.	Max.	Mean	Range 1/	Mean	Range 1/	Mean	Range 1/
		°F.	°F.			Percent	Percent	Inches	Inches
April	1- 5	1	26	0	0	75	32	.06	.13
	6-10	10	30	0	0	73	29	.08	.12
	11-15	11	31	0	0	90	16	.02	.04
	16-20	15	36	0	0	85	17	.06	.11
	21-25	19	38	0	0	80	24	.04	.06
	26-30	22	42	2	5	90	10	.04	.07
May	1- 5	24	42	2	4	77	27	.33	.93
	6-10	30	49	8	10	92	13	.02	.03
	11-15	32	52	9	8	82	19	.06	.10
	16-20	38	58	27	19	71	25	.12	.17
	21-25	39	58	33	15	74	25	.18	.24
	26-31	43	62	60	18	77	19	.11	.11
June	1- 5	46	66	67	24	77	27	.13	.22
	6-10	48	68	77	26	74	25	.17	.23
	11-15	48	65	69	26	72	31	.17	.37
	16-20	51	69	86	25	78	28	.08	.14
	21-25	49	65	70	28	62	31	.20	.18
	26-30	50	67	77	26	71	27	.24	.30
July	1- 5	51	68	85	22	58	19	.44	.70
	6-10	51	68	82	22	68	22	.22	.25
	11-15	52	70	91	30	68	31	.24	.39
	16-20	52	67	85	18	52	17	.37	.28
	21-25	52	69	86	29	58	32	.37	.44
	26-31	50	64	88	31	47	28	.60	.50
Aug.	1- 5	48	62	62	14	46	28	.43	.34
	6-10	50	65	72	12	69	32	.18	.26
	11-15	48	64	67	19	55	20	.40	.51
	16-20	48	62	61	19	57	27	.42	.47
	21-25	46	60	51	19	48	25	.55	.43
	26-31	44	56	45	20	33	24	.75	.60
Sept.	1- 5	40	57	30	21	50	29	.34	.55
	6-10	40	54	25	14	45	27	.33	.28
	11-15	38	54	18	14	55	27	.26	.29
	16-20	35	48	9	7	62	32	.26	.32
	21-25	31	45	5	4	62	37	.18	.26
	26-30	30	42	2	4	62	25	.28	.26
Oct.	1- 5	27	40	1	2	82	17	.07	.08
	6-10	25	36	0	1	69	19	.07	.06
	11-15	19	31	0	0	78	28	.06	.10
	16-20	16	29	0	0	69	24	.11	.14
	21-25	12	26	0	0	80	18	.08	.12
	26-31	8	23	0	0	62	24	.15	.14

1/ Range--one standard deviation.

GULKANA[5/]

Latitude.--62°09' Longitude.--140°27' Elevation.--1,572 feet

Mean annual precipitation.[6/]--11.68 inches

Mean precipitation, April 1-October 31.[6/]--8.60 inches

5/, 6/ See page 6.

Table 15.--Mean temperature, 1946-1961

Period	Temperature		Period	Temperature	
	Mean	Range[1/]		Mean	Range[1/]
	°F.	°F.		°F.	°F.
April 1- 5	24	7	July 16-20	58	3
6-10	26	6	21-25	58	4
11-15	29	4	26-31	57	4
16-20	30	7			
21-25	34	5	Aug. 1- 5	55	3
26-30	37	5	6-10	56	4
			11-15	55	4
May 1- 5	39	4	16-20	53	4
6-10	42	4	21-25	51	4
11-15	43	3	26-31	50	4
16-20	46	3			
21-25	48	4	Sept. 1- 5	48	4
26-31	49	4	6-10	47	3
			11-15	45	2
June 1- 5	52	6	16-20	42	2
6-10	55	5	21-25	41	4
11-15	53	4	26-30	38	5
16-20	56	4			
21-25	54	4	Oct. 1- 5	36	4
26-30	57	5	6-10	31	7
			11-15	28	8
July 1- 5	56	4	16-20	25	9
6-10	57	4	21-25	21	9
11-15	59	4	26-31	20	10

1/ Range--one standard deviation.

Table 16.--Mean extreme temperatures, growing degree days, dry days, and precipitation by periods, 1946-1961

Period		Mean temperatures		Growing degree days		Dry days		Precipitation	
		Min.	Max.	Mean	Range 1/	Mean	Range 1/	Mean	Range 1/
		°F.	°F.			Percent	Percent	Inches	Inches
April	1- 5	10	36	0	0	88	18	.04	.06
	6-10	13	39	0	0	89	16	.01	.02
	11-15	17	41	0	0	95	9	.01	.03
	16-20	19	41	0	0	91	14	.01	.02
	21-25	23	44	0	0	86	17	.05	.10
	26-30	25	48	2	4	90	16	.02	.03
May	1- 5	28	50	2	4	90	19	.02	.04
	6-10	30	54	8	9	88	18	.05	.08
	11-15	32	53	8	7	86	22	.05	.12
	16-20	34	57	15	11	78	23	.08	.14
	21-25	36	59	25	22	86	16	.07	.13
	26-31	38	60	38	22	76	20	.26	.36
June	1- 5	39	65	46	28	84	18	.06	.11
	6-10	42	68	61	26	80	26	.12	.17
	11-15	41	64	48	22	69	23	.15	.16
	16-20	43	68	64	22	64	26	.26	.29
	21-25	43	65	58	21	61	27	.28	.34
	26-30	45	68	68	24	66	27	.24	.27
July	1- 5	44	68	66	21	65	20	.24	.26
	6-10	45	69	72	20	69	26	.18	.26
	11-15	46	71	79	23	65	25	.26	.36
	16-20	46	69	75	15	55	27	.36	.29
	21-25	45	69	73	22	58	27	.29	.30
	26-31	47	66	83	26	47	21	.64	.51
Aug.	1- 5	45	65	60	17	61	26	.29	.30
	6-10	43	68	64	18	72	22	.30	.25
	11-15	43	67	60	20	68	25	.16	.17
	16-20	41	64	50	18	61	26	.27	.29
	21-25	40	61	40	16	50	19	.33	.26
	26-31	39	61	44	22	57	29	.47	.53
Sept.	1- 5	38	58	28	18	52	31	.53	.46
	6-10	36	57	21	12	74	25	.25	.31
	11-15	34	56	15	11	64	30	.37	.69
	16-20	32	52	8	5	61	29	.23	.25
	21-25	32	49	6	5	66	25	.29	.46
	26-30	28	47	4	6	70	28	.19	.24
Oct.	1- 5	26	45	1	4	75	21	.18	.32
	6-10	21	41	0	0	79	18	.12	.19
	11-15	19	37	0	0	76	24	.11	.19
	16-20	16	34	0	0	80	26	.17	.31
	21-25	12	31	0	0	81	21	.04	.08
	26-31	12	28	0	0	67	25	.16	.20

1/ Range--one standard deviation.

HOLY CROSS[5/]

Latitude.--62°10' Longitude.--159°45' Elevation.--150 feet

Mean annual precipitation.[6/]--18.00 inches

Mean precipitation, April 1-October 31.[6/]--12.69 inches

5/, 6/ See page 6.

Table 17.--Mean temperature, 1946-1961

Period	Temperature		Period	Temperature	
	Mean	Range[1/]		Mean	Range[1/]
	°F.	°F.		°F.	°F.
April 1- 5	19	10	July 16-20	58	4
6-10	23	10	21-25	58	4
11-15	27	5	26-31	55	4
16-20	27	9			
21-25	32	7	Aug. 1- 5	55	3
26-30	35	7	6-10	55	3
			11-15	55	4
May 1- 5	36	7	16-20	54	3
6-10	41	6	21-25	53	3
11-15	43	5	26-31	50	3
16-20	47	4			
21-25	47	3	Sept. 1- 5	49	4
26-31	51	2	6-10	48	4
			11-15	46	3
June 1- 5	53	4	16-20	44	4
6-10	54	5	21-25	41	5
11-15	53	4	26-30	40	4
16-20	57	4			
21-25	55	4	Oct. 1- 5	37	5
26-30	55	4	6-10	34	4
			11-15	29	6
July 1- 5	58	4	16-20	27	6
6-10	57	4	21-25	26	7
11-15	59	6	26-31	24	7

1/ Range--one standard deviation.

Table 18.--Mean extreme temperatures, growing degree days, dry days, and precipitation by periods, 1946-1961

Period	Mean temperatures		Growing degree days		Dry days		Precipitation	
	Min.	Max.	Mean	Range 1/	Mean	Range 1/	Mean	Range 1/
	°F.	°F.			Percent	Percent	Inches	Inches
April 1- 5	9	28	0	0	90	20	.04	.14
6-10	14	32	0	0	90	13	.18	.54
11-15	18	34	0	0	90	15	.03	.06
16-20	18	36	0	0	88	23	.12	.30
21-25	23	41	0	0	85	19	.10	.20
26-30	26	43	2	5	86	20	.09	.15
May 1- 5	26	44	2	4	82	20	.08	.13
6-10	31	50	9	13	82	20	.07	.11
11-15	34	52	12	14	74	27	.13	.17
16-20	36	57	22	18	75	22	.06	.05
21-25	37	56	21	14	70	30	.20	.24
26-31	40	61	46	16	70	20	.18	.16
June 1- 5	42	63	48	22	70	32	.14	.20
6-10	44	64	58	26	61	22	.17	.15
11-15	44	62	52	20	55	31	.23	.20
16-20	46	67	69	18	79	18	.15	.20
21-25	46	64	62	22	61	32	.28	.36
26-30	45	64	60	20	65	24	.34	.42
July 1- 5	48	67	72	22	59	30	.34	.32
6-10	47	66	70	18	65	24	.20	.18
11-15	49	69	81	29	68	30	.19	.22
16-20	49	67	74	19	55	27	.43	.29
21-25	49	67	75	19	61	22	.32	.26
26-31	47	62	72	22	46	32	.50	.39
Aug. 1- 5	47	62	58	13	46	26	.56	.35
6-10	47	63	62	16	45	30	.45	.40
11-15	47	63	60	20	51	29	.39	.30
16-20	47	61	56	15	46	30	.52	.44
21-25	46	60	50	14	36	34	.83	.62
26-31	44	56	45	17	34	30	.85	.77
Sept. 1- 5	42	56	31	19	54	31	.41	.24
6-10	42	55	28	17	36	32	.64	.37
11-15	39	54	19	14	48	31	.41	.43
16-20	37	51	15	10	60	25	.29	.27
21-25	34	48	8	9	62	33	.30	.28
26-30	33	46	5	7	46	34	.66	.73
Oct. 1- 5	30	43	2	4	50	28	.40	.44
6-10	28	39	0	1	69	21	.19	.15
11-15	24	35	0	0	74	27	.13	.25
16-20	22	33	0	0	79	30	.20	.44
21-25	20	31	0	0	82	22	.15	.32
26-31	18	29	0	0	71	30	.22	.41

1/ Range--one standard deviation.

HUGHES[5/]

Latitude.--66°04' Longitude.--154°14' Elevation.--545 feet

Mean annual precipitation.[6/]--13.18 inches

Mean precipitation, April 1-October 31.[6/]--9.59 inches

5/, 6/ See page 6.

Table 19.--Mean temperature, 1946-1961

Period	Temperature		Period	Temperature	
	Mean	Range[1/]		Mean	Range[1/]
	°F.	°F.		°F.	°F.
April 1- 5	12	10	July 16-20	61	3
6-10	18	10	21-25	61	5
11-15	20	6	26-31	58	4
16-20	21	11			
21-25	28	7	Aug. 1- 5	55	3
26-30	32	8	6-10	56	3
			11-15	56	4
May 1- 5	34	8	16-20	54	5
6-10	39	7	21-25	52	4
11-15	42	4	26-31	50	4
16-20	47	4			
21-25	50	4	Sept. 1- 5	48	4
25-31	52	4	6-10	47	4
			11-15	45	3
June 1- 5	55	5	16-20	40	4
6-10	58	4	21-25	37	6
11-15	55	5	26-30	34	5
16-20	58	5			
21-25	56	6	Oct. 1- 5	32	6
26-30	59	5	6-10	28	6
			11-15	22	7
July 1- 5	60	5	16-20	21	8
6-10	60	5	21-25	17	11
11-15	63	6	26-31	15	9

1/ Range--one standard deviation.

Table 20.--Mean extreme temperatures, growing degree days, dry days, and precipitation by periods, 1946-1961

Period	Mean temperatures		Growing degree days		Dry days		Precipitation	
	Min.	Max.	Mean	Range 1/	Mean	Range 1/	Mean	Range 1/
	°F.	°F.			Percent	Percent	Inches	Inches
April 1- 5	-3	27	0	0	94	16	.03	.08
6-10	5	30	0	0	92	16	.03	.08
11-15	6	33	0	1	98	7	.01	.02
16-20	7	35	0	0	96	8	.01	.02
21-25	15	39	0	0	92	20	.05	.17
26-30	20	44	3	7	99	5	.00	.01
May 1- 5	23	45	2	6	92	18	.04	.16
6-10	28	50	5	7	99	5	.00	.00
11-15	31	53	8	9	95	9	.00	.01
16-20	36	58	22	18	90	15	.08	.16
21-25	38	61	35	17	90	18	.09	.22
26-31	41	64	57	23	90	18	.10	.20
June 1- 5	43	67	61	25	85	20	.12	.23
6-10	45	70	73	22	85	21	.18	.31
11-15	43	67	64	23	84	21	.33	.80
16-20	46	70	77	24	83	18	.20	.25
21-25	44	67	66	27	75	21	.32	.53
26-30	47	70	81	26	79	22	.30	.38
July 1- 5	50	70	86	25	78	23	.37	.56
6-10	49	70	84	23	74	28	.41	.52
11-15	51	74	98	28	81	28	.15	.26
16-20	50	72	90	17	78	25	.32	.39
21-25	49	72	90	24	86	14	.25	.48
26-31	48	67	89	27	59	30	.68	.62
Aug. 1- 5	45	65	60	15	64	28	.39	.55
6-10	45	67	65	15	69	24	.36	.42
11-15	45	66	64	22	70	28	.38	.47
16-20	43	65	57	23	70	23	.56	.72
21-25	42	62	48	22	65	30	.41	.62
26-31	41	59	44	19	73	23	.59	.82
Sept. 1- 5	38	58	28	19	84	17	.32	.58
6-10	38	55	22	18	65	37	.34	.42
11-15	36	54	15	11	74	23	.36	.42
16-20	31	48	4	5	77	23	.21	.30
21-25	28	46	3	4	86	16	.07	.13
26-30	26	41	0	2	78	20	.21	.32
Oct. 1- 5	25	38	0	1	86	19	.10	.16
6-10	21	35	0	0	90	18	.04	.09
11-15	14	30	0	0	89	16	.13	.29
16-20	14	28	0	0	85	20	.19	.36
21-25	9	25	0	0	88	14	.20	.39
26-31	7	22	0	0	81	22	.30	.45

1/ Range--one standard deviation.

ILIAMNA[5/]

Latitude.--59°44' Longitude.--154°57' Elevation.--145 feet

Mean annual precipitation.[6/]--28.79 inches

Mean precipitation, April 1-October 31.[6/]--21.18 inches

5/, 6/ See page 6.

Table 21.--Mean temperature, 1946-1961

Period	Temperature		Period	Temperature	
	Mean	Range[1/]		Mean	Range[1/]
	°F.	°F.		°F.	°F.
April 1- 5	25	8	July 16-20	54	2
6-10	27	9	21-25	56	3
11-15	31	4	26-31	55	2
16-20	31	5			
21-25	33	5	Aug. 1- 5	54	2
26-30	36	5	6-10	55	3
			11-15	56	4
May 1- 5	37	5	16-20	54	2
6-10	40	3	21-25	53	2
11-15	40	3	26-31	52	2
16-20	42	3			
21-25	44	2	Sept. 1- 5	50	3
26-31	46	3	6-10	50	2
			11-15	48	2
June 1- 5	48	3	16-20	47	4
6-10	49	3	21-25	44	4
11-15	49	2	26-30	43	4
16-20	52	3			
21-25	52	5	Oct. 1- 5	40	4
26-30	53	4	6-10	38	5
			11-15	34	6
July 1- 5	53	3	16-20	33	6
6-10	54	4	21-25	34	5
11-15	54	4	26-31	31	9

1/ Range--one standard deviation.

Table 22.--Mean extreme temperatures, growing degree days, dry days, and precipitation by periods, 1946-1961

Period		Mean temperatures		Growing degree days		Dry days		Precipitation	
		Min.	Max.	Mean	Range 1/	Mean	Range 1/	Mean	Range 1/
		°F.	°F.			Percent	Percent	Inches	Inches
April	1- 5	16	33	0	0	75	24	.16	.23
	6-10	18	35	0	0	80	22	.08	.11
	11-15	23	38	0	0	71	24	.14	.24
	16-20	24	38	0	0	72	30	.23	.34
	21-25	26	40	0	0	66	35	.22	.30
	26-30	28	44	0	1	74	25	.15	.23
May	1- 5	29	44	0	1	76	24	.14	.21
	6-10	32	47	2	4	71	27	.14	.20
	11-15	33	47	2	4	68	30	.16	.22
	16-20	35	50	5	6	79	20	.19	.30
	21-25	36	52	10	8	75	35	.20	.35
	26-31	38	54	22	16	67	28	.10	.12
June	1- 5	39	56	25	15	72	19	.14	.19
	6-10	40	57	30	15	69	24	.29	.41
	11-15	41	57	32	11	70	27	.30	.38
	16-20	43	61	46	16	70	24	.20	.26
	21-25	44	59	44	24	56	33	.31	.34
	26-30	44	62	50	23	69	31	.19	.23
July	1- 5	45	60	50	17	46	29	.52	.58
	6-10	46	62	56	18	61	29	.32	.42
	11-15	47	63	61	19	70	24	.29	.40
	16-20	47	61	58	12	45	24	.55	.49
	21-25	48	63	63	15	51	29	.38	.40
	26-31	48	61	70	13	49	30	.91	.84
Aug.	1- 5	47	60	55	10	49	25	.66	.66
	6-10	47	62	60	15	55	30	.67	.52
	11-15	49	62	63	19	45	31	.81	.85
	16-20	47	61	57	9	51	23	.49	.50
	21-25	47	59	50	10	35	25	1.36	1.37
	26-31	45	58	51	15	38	24	1.11	1.11
Sept.	1- 5	44	56	37	15	52	25	.59	.63
	6-10	44	55	34	13	35	30	1.00	.78
	11-15	41	54	26	12	50	28	.57	.69
	16-20	40	53	23	13	45	28	.75	.51
	21-25	37	50	12	11	46	34	.68	.71
	26-30	36	49	10	10	51	26	.69	.73
Oct.	1- 5	34	46	6	7	50	32	.68	.65
	6-10	32	44	3	5	56	33	.51	.54
	11-15	28	40	0	1	55	26	.50	.64
	16-20	27	39	2	5	62	29	.32	.48
	21-25	27	39	1	4	55	22	.44	.39
	26-31	25	36	1	2	64	27	.46	.47

1/ Range--one standard deviation.

KENAI[5/]

Latitude.--60°34' Longitude.--151°16' Elevation.--85 feet

Mean annual precipitation.[6/]--18.95 inches

Mean precipitation, April 1-October 31.[6/]--11.41 inches

5/, 6/ See page 6.

Table 23.--Mean temperature, 1946-1961

Period	Temperature		Period	Temperature	
	Mean	Range[1/]		Mean	Range[1/]
	°F.	°F.		°F.	°F.
April 1- 5	28	6	July 16-20	54	2
6-10	30	6	21-25	55	2
11-15	33	2	26-31	54	2
16-20	33	5			
21-25	35	4	Aug. 1- 5	54	2
26-30	38	4	6-10	54	2
			11-15	54	3
May 1- 5	39	4	16-20	53	2
6-10	41	2	21-25	52	2
11-15	42	2	26-31	51	2
16-20	44	2			
21-25	46	3	Sept. 1- 5	50	3
26-31	47	2	6-10	49	3
			11-15	48	2
June 1- 5	48	2	16-20	46	3
6-10	49	2	21-25	44	4
11-15	49	2	26-30	44	4
16-20	51	2			
21-25	51	3	Oct. 1- 5	40	3
26-30	52	3	6-10	38	5
			11-15	36	5
July 1- 5	52	2	16-20	33	5
6-10	53	2	21-25	33	6
11-15	54	2	26-31	31	8

1/ Range--one standard deviation.

Table 24.--Mean extreme temperatures, growing degree days, dry days, and precipitation by periods, 1946-1961

Period		Mean temperatures		Growing degree days		Dry days		Precipitation	
		Min.	Max.	Mean	Range 1/	Mean	Range 1/	Mean	Range 1/
		°F.	°F.			Percent	Percent	Inches	Inches
April	1- 5	18	38	0	0	71	27	.30	.66
	6-10	20	39	0	0	72	32	.12	.11
	11-15	24	42	0	0	85	21	.14	.30
	16-20	25	41	0	0	81	21	.09	.25
	21-25	27	43	0	0	72	29	.28	.40
	26-30	29	47	2	3	92	16	.04	.07
May	1- 5	30	48	2	3	88	19	.06	.12
	6-10	32	50	4	4	80	21	.10	.18
	11-15	34	50	5	5	69	23	.14	.13
	16-20	35	53	10	7	66	25	.10	.10
	21-25	37	54	16	11	74	27	.11	.18
	26-31	38	55	25	14	73	23	.17	.25
June	1- 5	39	56	25	12	76	22	.08	.14
	6-10	41	56	29	12	75	20	.14	.20
	11-15	41	57	30	11	61	34	.28	.41
	16-20	42	59	39	12	66	30	.30	.34
	21-25	44	58	39	13	68	26	.28	.29
	26-30	44	60	45	15	81	24	.08	.11
July	1- 5	45	60	48	10	66	30	.34	.40
	6-10	45	61	51	10	74	30	.18	.28
	11-15	46	62	56	10	74	25	.20	.30
	16-20	47	61	55	9	52	32	.54	.74
	21-25	47	62	58	12	68	27	.37	.47
	26-31	47	60	65	10	51	27	.86	.65
Aug.	1- 5	47	60	54	11	56	23	.47	.32
	6-10	46	63	58	12	68	25	.46	.40
	11-15	46	62	56	13	55	27	.37	.36
	16-20	45	61	52	9	74	20	.21	.32
	21-25	45	60	47	12	51	24	.53	.57
	26-31	43	59	50	15	55	30	.65	.74
Sept.	1- 5	42	58	35	14	51	34	.60	.75
	6-10	41	57	32	13	45	26	.79	.87
	11-15	39	56	25	11	50	29	.58	.47
	16-20	37	54	18	10	55	30	.45	.41
	21-25	36	52	13	10	44	30	.72	.54
	26-30	36	52	11	11	54	30	.43	.45
Oct.	1- 5	32	48	5	7	60	32	.36	.41
	6-10	30	46	2	2	64	21	.36	.35
	11-15	28	43	1	2	49	23	.32	.24
	16-20	25	41	0	2	70	26	.25	.33
	21-25	25	40	1	4	78	16	.28	.33
	26-31	24	38	0	2	62	23	.40	.34

1/ Range--one standard deviation.

LAKE MINCHUMINA[5/]

Latitude.--63°53' Longitude.--152°17' Elevation.--693 feet

Mean annual precipitation.[6/]--12.23 inches

Mean precipitation, April 1-October 31.[6/]--9.03 inches

5/, 6/ See page 6.

Table 25.--Mean temperature, 1946-1961

Period	Temperature		Period	Temperature	
	Mean	Range 1/		Mean	Range 1/
	°F.	°F.		°F.	°F.
April 1- 5	18	9	July 16-20	60	3
6-10	23	8	21-25	60	5
11-15	26	5	26-31	57	4
16-20	27	9			
21-25	32	7	Aug. 1- 5	56	3
26-30	36	7	6-10	58	3
			11-15	57	5
May 1- 5	37	8	16-20	55	4
6-10	42	6	21-25	53	4
11-15	44	3	26-31	50	4
16-20	48	4			
21-25	50	4	Sept. 1- 5	48	4
26-31	52	3	6-10	48	4
			11-15	46	3
June 1- 5	55	6	16-20	42	4
6-10	58	5	21-25	39	4
11-15	55	5	26-30	36	4
16-20	59	6			
21-25	57	5	Oct. 1- 5	33	5
26-30	58	5	6-10	30	5
			11-15	25	6
July 1- 5	59	4	16-20	22	7
6-10	60	4	21-25	19	9
11-15	62	6	26-31	17	8

1/ Range--one standard deviation.

Table 26.--Mean extreme temperatures, growing degree days, dry days, and precipitation by periods, 1946-1961

Period		Mean temperatures		Growing degree days		Dry days		Precipitation	
		Min.	Max.	Mean	Range 1/	Mean	Range 1/	Mean	Range 1/
		°F.	°F.			Percent	Percent	Inches	Inches
April	1- 5	7	28	0	0	76	29	.10	.15
	6-10	12	33	0	0	82	28	.05	.08
	11-15	15	35	0	0	88	26	.02	.05
	16-20	16	37	0	0	88	20	.03	.05
	21-25	22	41	0	0	66	32	.11	.15
	26-30	25	46	4	10	92	14	.04	.09
May	1- 5	27	46	4	6	88	18	.04	.07
	6-10	32	52	11	14	82	27	.10	.22
	11-15	34	53	11	9	85	19	.04	.05
	16-20	37	59	28	16	78	18	.14	.21
	21-25	39	59	33	18	69	26	.21	.35
	26-31	42	62	54	19	67	27	.30	.31
June	1- 5	44	65	60	29	75	21	.07	.08
	6-10	47	67	73	24	66	24	.20	.22
	11-15	46	64	62	24	55	29	.49	.57
	16-20	49	69	81	28	68	27	.16	.13
	21-25	47	66	70	24	50	31	.28	.20
	26-30	49	68	78	25	54	29	.28	.34
July	1- 5	49	68	79	22	54	32	.29	.34
	6-10	50	70	85	21	72	25	.31	.39
	11-15	52	72	95	30	71	30	.28	.52
	16-20	51	69	86	17	45	28	.46	.40
	21-25	50	69	84	24	51	26	.27	.22
	26-31	49	64	83	27	36	30	.54	.54
Aug.	1- 5	48	63	63	15	40	30	.41	.54
	6-10	48	66	74	15	54	30	.32	.45
	11-15	48	65	68	24	55	27	.52	.49
	16-20	46	63	58	19	58	30	.41	.44
	21-25	45	60	50	20	50	24	.56	.67
	26-31	43	57	46	24	44	26	.58	.51
Sept.	1- 5	41	56	29	19	58	33	.26	.28
	6-10	41	55	28	18	61	26	.18	.21
	11-15	38	54	18	13	56	28	.22	.29
	16-20	34	49	10	8	62	20	.21	.21
	21-25	32	45	2	3	58	27	.20	.23
	26-30	30	41	1	3	61	26	.29	.42
Oct.	1- 5	27	39	1	2	63	37	.15	.17
	6-10	24	35	0	0	71	24	.06	.07
	11-15	20	30	0	0	67	16	.11	.10
	16-20	16	28	0	0	64	28	.10	.13
	21-25	13	26	0	0	75	35	.08	.12
	26-31	11	23	0	0	66	26	.14	.21

1/ Range--one standard deviation.

MANLEY HOT SPRINGS[5/]

Latitude.--65°00' Longitude.--150°39' Elevation.--325 feet

Mean annual precipitation.[6/]--15.05 inches

Mean precipitation, April 1-October 31.[6/]--11.25 inches

5/, 6/ See page 6.

Table 27.--Mean temperature, 1946-1961

Period	Temperature		Period	Temperature	
	Mean	Range 1/		Mean	Range 1/
	°F.	°F.		°F.	°F.
April 1- 5	16	10	July 16-20	60	3
6-10	22	9	21-25	59	4
11-15	24	5	26-31	57	4
16-20	26	10			
21-25	32	7	Aug. 1- 5	55	3
26-30	36	7	6-10	56	2
			11-15	55	4
May 1- 5	37	7	16-20	53	4
6-10	42	5	21-25	52	4
11-15	44	4	26-31	49	4
16-20	48	2			
21-25	51	4	Sept. 1- 5	47	3
26-31	52	4	6-10	47	4
			11-15	45	4
June 1- 5	54	5	16-20	41	4
6-10	57	4	21-25	38	5
11-15	56	4	26-30	35	4
16-20	58	5			
21-25	56	4	Oct. 1- 5	33	4
26-30	58	4	6-10	28	6
			11-15	24	8
July 1- 5	58	4	16-20	22	7
6-10	58	3	21-25	18	10
11-15	60	5	26-31	16	10

1/ Range--one standard deviation.

MANLEY HOT SPRINGS

Table 28.--Mean extreme temperatures, growing degree days, dry days, and precipitation by periods, 1946-1961

Period	Mean temperatures		Growing degree days		Dry days		Precipitation	
	Min.	Max.	Mean	Range 1/	Mean	Range 1/	Mean	Range 1/
	°F.	°F.			Percent	Percent	Inches	Inches
April 1- 5	2	29	0	0	84	26	.07	.19
6-10	8	34	0	0	82	25	.08	.16
11-15	11	36	0	0	84	28	.10	.30
16-20	13	40	1	4	95	9	.02	.06
21-25	19	44	0	1	90	15	.06	.12
26-30	23	48	5	11	91	12	.07	.24
May 1- 5	26	49	4	11	88	20	.08	.14
6-10	30	55	12	11	92	13	.02	.04
11-15	31	56	13	12	85	17	.09	.15
16-20	34	62	26	11	76	26	.19	.24
21-25	37	64	38	18	64	24	.16	.16
26-31	37	67	55	22	72	28	.18	.25
June 1- 5	39	69	56	26	74	27	.20	.24
6-10	42	72	71	20	80	19	.10	.21
11-15	42	70	65	19	56	24	.32	.35
16-20	44	72	76	27	62	26	.22	.22
21-25	42	69	66	22	56	22	.34	.38
26-30	44	71	75	22	59	31	.30	.31
July 1- 5	44	72	77	20	65	27	.31	.42
6-10	44	72	77	17	71	25	.26	.42
11-15	45	76	87	24	75	28	.28	.46
16-20	46	73	83	15	62	26	.34	.30
21-25	45	72	79	21	61	25	.35	.29
26-31	45	68	85	25	44	32	.70	.52
Aug. 1- 5	43	66	61	13	44	26	.48	.36
6-10	42	68	63	12	55	30	.49	.63
11-15	42	67	60	20	50	27	.36	.32
16-20	40	65	50	18	57	29	.45	.42
21-25	40	63	46	19	52	30	.68	.80
26-31	38	60	39	19	44	31	.56	.66
Sept. 1- 5	35	58	21	13	57	30	.25	.25
6-10	35	58	24	16	61	28	.33	.39
11-15	33	56	16	13	57	29	.23	.33
16-20	30	52	8	8	63	29	.34	.40
21-25	28	48	4	4	67	22	.32	.44
26-30	26	44	1	2	73	34	.38	.82
Oct. 1- 5	24	41	1	2	60	34	.18	.16
6-10	20	36	0	1	73	24	.06	.04
11-15	15	32	0	0	73	20	.13	.20
16-20	12	30	0	0	64	36	.29	.34
21-25	8	27	0	0	77	24	.10	.11
26-31	7	25	0	0	68	32	.28	.57

1/ Range--one standard deviation.

MATANUSKA AGRICULTURAL EXPERIMENT STATION [5]

Latitude.--61°34' Longitude.--149°16' Elevation.--150 feet

Mean annual precipitation. [6]--15.54 inches

Mean precipitation, April 1-October 31. [6]--11.55 inches

[5], [6] See page 6.

Table 29.--Mean temperature, 1946-1961

Period	Temperature		Period	Temperature	
	Mean	Range [1]		Mean	Range [1]
	°F.	°F.		°F.	°F.
April 1- 5	31	5	July 16-20	58	1
6-10	33	5	21-25	58	3
11-15	37	3	26-31	57	2
16-20	36	5			
21-25	38	4	Aug. 1- 5	56	2
26-30	41	3	6-10	57	2
			11-15	57	3
May 1- 5	42	4	16-20	55	2
6-10	45	3	21-25	54	2
11-15	46	3	26-31	53	3
16-20	49	2			
21-25	50	3	Sept. 1- 5	51	3
26-31	51	3	6-10	50	3
			11-15	49	3
June 1- 5	53	3	16-20	46	2
6-10	54	2	21-25	44	4
11-15	54	3	26-30	43	4
16-20	56	3			
21-25	55	4	Oct. 1- 5	41	3
26-30	58	4	6-10	38	5
			11-15	35	5
July 1- 5	57	3	16-20	33	6
6-10	58	3	21-25	31	7
11-15	58	3	26-31	30	8

[1] Range--one standard deviation.

MATANUSKA AGRICULTURAL EXPERIMENT STATION 3/

Table 30.--Mean extreme temperatures, growing degree days, dry days, and precipitation by periods, 1946-1961

Period		Mean temperatures		Growing degree days		Dry days		Precipitation	
		Min.	Max.	Mean	Range 1/	Mean	Range 1/	Mean	Range 1/
		°F.	°F.			Percent	Percent	Inches	Inches
April	1- 5	22	41	0	0	87	22	.05	.09
	6-10	23	42	0	0	83	24	.12	.29
	11-15	27	46	0	1	89	22	.05	.14
	16-20	27	46	1	3	92	18	.03	.08
	21-25	28	47	1	3	80	18	.12	.15
	26-30	30	52	4	6	89	13	.08	.14
May	1- 5	31	54	8	9	88	16	.06	.09
	6-10	33	57	14	12	85	19	.09	.18
	11-15	36	57	19	13	87	18	.07	.13
	16-20	37	60	28	10	84	23	.14	.26
	21-25	38	61	34	17	87	18	.05	.10
	26-31	40	62	50	17	79	22	.19	.32
June	1- 5	41	65	52	16	85	22	.10	.22
	6-10	42	66	58	12	80	19	.17	.26
	11-15	42	64	53	15	74	29	.28	.36
	16-20	44	68	67	16	76	21	.26	.39
	21-25	45	66	62	21	62	30	.50	.62
	26-30	46	69	72	18	74	22	.15	.18
July	1- 5	46	68	71	14	62	25	.40	.33
	6-10	46	69	74	14	74	30	.22	.28
	11-15	46	70	76	17	66	28	.35	.48
	16-20	47	68	74	6	58	24	.50	.36
	21-25	48	68	77	15	62	32	.35	.37
	26-31	47	66	83	15	38	26	.84	.54
Aug.	1- 5	46	66	65	12	58	23	.42	.36
	6-10	46	68	71	11	62	19	.39	.43
	11-15	46	67	69	15	65	29	.26	.34
	16-20	44	66	62	17	64	24	.29	.27
	21-25	44	63	56	13	46	19	.77	.93
	26-31	43	62	59	18	60	32	.57	.71
Sept.	1- 5	41	60	41	14	52	30	.32	.39
	6-10	41	59	35	16	56	28	.35	.36
	11-15	39	58	31	18	55	32	.37	.43
	16-20	37	56	21	9	54	32	.53	.56
	21-25	34	53	14	11	61	30	.43	.52
	26-30	33	52	10	11	64	28	.49	.69
Oct.	1- 5	32	49	6	10	66	30	.36	.43
	6-10	29	47	3	6	76	20	.13	.20
	11-15	27	43	1	2	68	24	.24	.18
	16-20	24	41	1	5	71	31	.20	.22
	21-25	23	40	1	3	75	25	.21	.30
	26-31	22	38	1	2	81	19	.18	.32

1/ Range--one standard deviation.

McGRATH [5/]

Latitude.--62°58' Longitude.--155°37' Elevation.--338 feet

Mean annual precipitation. [6/]--18.58 inches

Mean precipitation, April 1-October 31. [6/]--13.16 inches

5/, 6/ See page 6.

Table 31.--Mean temperature, 1946-1961

Period	Temperature		Period	Temperature	
	Mean	Range [1/]		Mean	Range [1/]
	°F.	°F.		°F.	°F.
April 1- 5	16	11	July 16-20	59	4
6-10	22	11	21-25	59	4
11-15	26	5	26-31	56	4
16-20	27	9			
21-25	32	7	Aug. 1- 5	55	2
26-30	35	7	6-10	56	3
			11-15	56	4
May 1- 5	36	8	16-20	54	3
6-10	41	6	21-25	52	3
11-15	43	4	26-31	50	4
16-20	48	4			
21-25	48	3	Sept. 1- 5	48	4
26-31	52	3	6-10	48	4
			11-15	46	3
June 1- 5	54	5	16-20	43	4
6-10	56	5	21-25	39	4
11-15	54	4	26-30	37	5
16-20	58	4			
21-25	56	4	Oct. 1- 5	35	5
26-30	57	5	6-10	31	5
			11-15	26	7
July 1- 5	58	4	16-20	23	8
6-10	59	4	21-25	20	9
11-15	60	6	26-31	19	10

1/ Range--one standard deviation.

Table 32.--Mean extreme temperatures, growing degree days, dry days, and precipitation by periods, 1946-1961

Period	Mean temperatures		Growing degree days		Dry days		Precipitation	
	Min.	Max.	Mean	Range 1/	Mean	Range 1/	Mean	Range 1/
	°F.	°F.			Percent	Percent	Inches	Inches
April 1- 5	2	30	0	0	78	29	.06	.12
6-10	9	34	0	0	71	27	.12	.17
11-15	14	36	0	0	75	21	.09	.20
16-20	15	38	0	0	88	18	.08	.19
21-25	21	41	0	0	70	28	.19	.35
26-30	24	46	3	7	86	19	.05	.08
May 1- 5	26	46	3	5	80	27	.09	.17
6-10	30	52	10	13	84	21	.04	.07
11-15	33	53	10	10	78	25	.08	.12
16-20	36	58	26	16	65	25	.13	.14
21-25	38	58	28	13	71	19	.26	.38
26-31	41	62	53	17	71	27	.14	.17
June 1- 5	42	65	55	26	70	26	.19	.37
6-10	46	66	66	25	58	27	.22	.30
11-15	45	64	57	20	50	22	.42	.46
16-20	47	68	73	23	69	29	.27	.51
21-25	46	65	64	21	56	21	.35	.34
26-30	47	67	70	23	65	29	.28	.30
July 1- 5	48	67	74	22	48	27	.52	.55
6-10	49	70	82	20	68	24	.18	.24
11-15	49	70	84	28	69	31	.34	.60
16-20	50	68	81	19	46	24	.45	.37
21-25	49	68	80	19	60	22	.34	.30
26-31	48	64	78	24	38	32	.68	.61
Aug. 1- 5	46	62	59	13	39	26	.55	.53
6-10	46	65	64	15	48	29	.33	.27
11-15	47	65	66	22	49	19	.55	.46
16-20	45	62	55	16	41	18	.48	.40
21-25	44	60	47	15	36	29	.80	.75
26-31	42	58	46	22	30	25	.78	.73
Sept. 1- 5	40	57	29	21	46	19	.39	.29
6-10	40	55	25	17	32	25	.72	.46
11-15	38	53	16	13	49	29	.42	.53
16-20	34	51	12	9	61	21	.35	.44
21-25	31	47	4	5	59	30	.33	.35
26-30	29	44	4	6	48	29	.58	.69
Oct. 1- 5	27	42	2	4	58	27	.22	.20
6-10	24	38	0	0	64	26	.12	.13
11-15	19	32	0	0	66	33	.25	.50
16-20	16	30	0	0	66	28	.20	.29
21-25	12	28	0	0	70	25	.10	.16
26-31	11	26	0	0	64	29	.28	.50

1/ Range--one standard deviation.

NENANA[5/]

Latitude.--64°33' Longitude.--149°05' Elevation.--356 feet

Mean annual precipitation.[6/]--11.06 inches

Mean precipitation, April 1-October 31.[6/]--8.46 inches

5/, 6/ See page 6.

Table 33.--Mean temperature, 1946-1961

Period	Temperature		Period	Temperature	
	Mean	Range[1/]		Mean	Range[1/]
	°F.	°F.		°F.	°F.
April 1- 5	15	10	July 16-20	60	3
6-10	20	10	21-25	58	4
11-15	23	6	26-31	57	4
16-20	26	11			
21-25	32	8	Aug. 1- 5	55	3
26-30	36	7	6-10	56	4
			11-15	55	4
May 1- 5	38	7	16-20	54	4
6-10	42	5	21-25	52	4
11-15	44	3	26-31	50	5
16-20	49	2			
21-25	51	4	Sept. 1- 5	48	5
26-31	52	3	6-10	47	4
			11-15	45	4
June 1- 5	55	6	16-20	40	4
6-10	57	4	21-25	37	5
11-15	55	3	26-30	35	6
16-20	59	5			
21-25	57	4	Oct. 1- 5	33	5
26-30	58	4	6-10	28	6
			11-15	23	8
July 1- 5	58	3	16-20	22	7
6-10	59	4	21-25	19	10
11-15	60	5	26-31	16	10

1/ Range--one standard deviation.

Table 34.--Mean extreme temperatures, growing degree days, dry days, and precipitation by periods, 1946-1961

Period		Mean temperatures		Growing degree days		Dry days		Precipitation	
		Min.	Max.	Mean	Range 1/	Mean	Range 1/	Mean	Range 1/
		°F.	°F.			Percent	Percent	Inches	Inches
April	1- 5	2	28	0	0	70	28	.07	.08
	6-10	8	33	0	0	81	28	.07	.12
	11-15	11	34	0	0	86	27	.03	.07
	16-20	15	38	1	4	90	18	.02	.04
	21-25	22	43	1	2	90	16	.03	.07
	26-30	24	47	4	10	90	13	.11	.28
May	1- 5	26	48	4	7	89	19	.02	.05
	6-10	30	54	9	11	91	14	.08	.14
	11-15	32	56	12	9	86	19	.02	.04
	16-20	36	61	30	12	85	21	.06	.12
	21-25	39	62	38	22	76	26	.23	.25
	26-31	39	64	52	19	74	19	.25	.38
June	1- 5	42	68	60	28	75	22	.09	.09
	6-10	44	69	69	19	78	26	.19	.30
	11-15	44	66	62	17	60	29	.25	.31
	16-20	46	71	78	25	76	23	.17	.22
	21-25	45	68	68	20	58	24	.32	.40
	26-30	46	69	74	21	60	24	.35	.62
July	1- 5	46	70	77	17	72	30	.28	.36
	6-10	47	71	80	18	72	28	.20	.35
	11-15	47	74	88	24	76	24	.14	.23
	16-20	48	71	84	16	52	24	.47	.57
	21-25	46	70	77	21	59	24	.28	.29
	26-31	47	56	84	23	51	26	.52	.36
Aug.	1- 5	45	65	62	15	55	26	.26	.22
	6-10	43	67	64	19	56	26	.32	.37
	11-15	44	66	62	22	64	26	.26	.30
	16-20	42	65	55	20	62	24	.27	.25
	21-25	41	63	47	19	54	22	.47	.74
	26-31	40	60	44	26	51	35	.44	.45
Sept.	1- 5	37	58	27	22	66	33	.30	.38
	6-10	37	58	26	17	69	21	.11	.09
	11-15	34	55	16	15	59	31	.17	.20
	16-20	30	51	8	8	59	23	.29	.41
	21-25	28	46	4	5	67	25	.19	.15
	26-30	27	42	2	5	61	32	.37	.59
Oct.	1- 5	25	41	1	3	68	28	.12	.12
	6-10	20	36	0	0	73	24	.07	.10
	11-15	15	31	0	0	73	21	.06	.06
	16-20	14	29	0	0	67	28	.10	.13
	21-25	11	27	0	0	69	27	.09	.12
	26-31	7	24	0	0	69	31	.16	.28

1/ Range--one standard deviation.

NORTHWAY[5/]

Latitude.--62°58' Longitude.--141°58' Elevation.--1,713 feet

Mean annual precipitation.[6/]--11.35 inches

Mean precipitation, April 1-October 31.[6/]--9.44 inches

5/, 6/ See page 6.

Table 35.--Mean temperature, 1946-1961

Period	Temperature		Period	Temporary	
	Mean	Range 1/		Mean	Range 1/
	°F.	°F.		°F.	°F.
April 1- 5	17	7	July 16-20	59	3
6-10	22	7	21-25	58	4
11-15	26	4	26-31	58	4
16-20	27	9			
21-25	31	7	Aug. 1- 5	56	4
26-30	36	5	6-10	56	3
			11-15	55	4
May 1- 5	38	5	16-20	53	4
6-10	42	4	21-25	51	4
11-15	43	4	26-31	50	6
16-20	47	3			
21-25	49	5	Sept. 1- 5	47	4
26-31	50	4	6-10	46	5
			11-15	45	3
June 1- 5	53	6	16-20	41	4
6-10	56	4	21-25	37	5
11-15	55	5	26-30	36	6
16-20	58	4			
21-25	56	4	Oct. 1- 5	32	4
26-30	58	5	6-10	26	6
			11-15	22	6
July 1- 5	58	4	16-20	20	7
6-10	59	4	21-25	14	9
11-15	59	4	26-31	13	7

1/ Range--one standard deviation.

Table 36.--Mean extreme temperatures, growing degree days, dry days, and precipitation by periods, 1946-1961

Period	Mean temperatures		Growing degree days		Dry days		Precipitation	
	Min.	Max.	Mean	Range 1/	Mean	Range 1/	Mean	Range 1/
	°F.	°F.			Percent	Percent	Inches	Inches
April 1- 5	2	32	0	0	82	20	.04	.09
6-10	8	36	0	0	85	20	.05	.13
11-15	12	38	0	0	89	21	.05	.11
16-20	14	39	0	0	89	18	.03	.06
21-25	18	43	0	0	92	12	.02	.06
26-30	24	47	2	5	90	16	.06	.14
May 1- 5	26	50	2	5	86	19	.05	.11
6-10	29	54	7	9	82	23	.06	.12
11-15	31	54	11	12	86	19	.07	.13
16-20	34	59	20	12	79	21	.10	.13
21-25	38	60	31	23	60	26	.26	.25
26-31	39	61	44	25	67	18	.37	.43
June 1- 5	41	65	53	28	69	24	.15	.22
6-10	44	68	67	22	70	27	.26	.34
11-15	44	65	58	25	61	31	.32	.45
16-20	46	69	74	23	62	26	.27	.26
21-25	46	66	65	21	51	24	.30	.27
26-30	47	67	73	22	46	20	.65	.49
July 1- 5	47	69	76	20	55	25	.36	.38
6-10	47	70	80	20	64	28	.23	.28
11-15	48	70	81	21	61	24	.41	.44
16-20	49	69	82	16	48	24	.74	.69
21-25	47	69	77	22	62	30	.31	.43
26-31	48	68	90	22	48	23	.50	.54
Aug. 1- 5	45	66	65	20	60	28	.15	.14
6-10	45	67	67	17	60	26	.21	.21
11-15	44	66	61	22	59	29	.24	.18
16-20	42	63	48	20	57	26	.35	.44
21-25	40	62	42	18	69	21	.19	.23
26-31	39	60	42	31	63	23	.27	.38
Sept. 1- 5	36	56	21	17	53	34	.31	.35
6-10	34	57	18	17	77	21	.11	.18
11-15	34	55	14	12	68	22	.12	.13
16-20	30	50	6	7	67	31	.26	.48
21-25	28	46	2	5	83	22	.08	.12
26-30	26	45	2	3	84	14	.04	.06
Oct. 1- 5	22	41	0	0	80	26	.10	.15
6-10	16	36	0	0	81	19	.10	.14
11-15	14	31	0	0	85	21	.06	.14
16-20	11	28	0	0	71	26	.07	.09
21-25	4	23	0	0	82	18	.06	.12
26-31	5	20	0	0	72	19	.13	.17

1/ Range--one standard deviation.

SKWENTNA[5/]

Latitude.--61°57' Longitude.--151°10' Elevation.--153 feet

Mean annual precipitation.[6/]--28.55 inches

Mean precipitation, April 1-October 31.[6/]--18.48 inches

5/, 6/ See page 6.

Table 37.--Mean temperature, 1946-1961

Period	Temperature		Period	Temperature	
	Mean	Range[1/]		Mean	Range[1/]
	°F.	°F.		°F.	°F.
April 1- 5	27	6	July 16-20	59	3
6-10	29	5	21-25	59	4
11-15	33	4	26-31	57	3
16-20	34	6			
21-25	35	6	Aug. 1- 5	56	2
26-30	38	4	6-10	59	3
			11-15	56	4
May 1- 5	39	5	16-20	54	2
6-10	42	4	21-25	52	3
11-15	44	3	26-31	51	4
16-20	46	3			
21-25	47	3	Sept. 1- 5	51	3
26-31	51	4	6-10	50	3
			11-15	48	3
June 1- 5	53	4	16-20	44	4
6-10	55	4	21-25	43	4
11-15	53	4	26-30	40	4
16-20	56	4			
21-25	55	4	Oct. 1- 5	38	3
26-30	58	4	6-10	37	4
			11-15	34	4
July 1- 5	58	3	16-20	30	4
6-10	58	4	21-25	27	8
11-15	60	5	26-31	26	8

1/ Range--one standard deviation.

Table 38.--Mean extreme temperatures, growing degree days, dry days, and precipitation by periods, 1946-1961

Period	Mean temperatures		Growing degree days		Dry days		Precipitation	
	Min.	Max.	Mean	Range 1/	Mean	Range 1/	Mean	Range 1/
	°F.	°F.			Percent	Percent	Inches	Inches
April 1- 5	15	39	0	0	69	29	.19	.24
6-10	17	41	0	0	72	26	.15	.25
11-15	22	44	0	0	80	24	.15	.23
16-20	24	43	0	0	74	25	.15	.34
21-25	24	45	0	0	83	27	.12	.24
26-30	26	49	2	3	95	12	.01	.02
May 1- 5	28	49	3	4	74	32	.23	.36
6-10	30	53	8	11	80	23	.09	.16
11-15	33	54	10	10	55	34	.25	.32
16-20	34	57	16	14	63	23	.19	.22
21-25	35	58	22	13	63	29	.14	.18
26-31	39	62	47	26	69	13	.23	.29
June 1- 5	41	66	52	22	77	28	.08	.12
6-10	43	67	61	22	71	22	.25	.33
11-15	42	63	49	19	68	22	.30	.50
16-20	43	68	64	18	63	29	.40	.45
21-25	45	66	62	22	65	30	.29	.29
26-30	47	70	78	22	69	18	.17	.24
July 1- 5	46	70	76	15	72	28	.34	.54
6-10	47	70	78	19	66	32	.26	.32
11-15	48	72	86	25	72	32	.25	.42
16-20	48	69	79	13	52	30	.57	.66
21-25	48	71	82	20	65	25	.49	.45
26-31	48	67	86	16	42	25	.89	.68
Aug. 1- 5	47	66	67	8	57	21	.47	.36
6-10	48	69	79	15	55	31	.51	.43
11-15	46	66	66	18	55	31	.56	.56
16-20	43	66	57	10	62	30	.28	.32
21-25	43	61	47	16	34	25	.68	.50
26-31	41	61	50	22	47	28	.81	.81
Sept. 1- 5	41	60	39	13	48	40	.68	.70
6-10	41	57	34	14	38	19	.69	.46
11-15	38	57	26	13	43	26	.70	.45
16-20	35	53	13	11	45	31	.67	.56
21-25	34	52	10	11	45	33	.96	1.02
26-30	31	49	5	5	65	28	.55	.69
Oct. 1- 5	29	46	2	4	55	33	.56	.59
6-10	29	44	0	1	55	30	.48	.51
11-15	27	41	0	0	58	26	.47	.47
16-20	23	38	0	0	55	32	.46	.52
21-25	19	35	0	0	62	28	.29	.29
26-31	19	33	0	0	66	24	.62	.65

1/ Range--one standard deviation.

TALKEETNA[5]

Latitude.--62°18' Longitude.--150°06' Elevation.--345 feet

Mean annual precipitation.[6]--28.02 inches

Mean precipitation, April 1-October 31.[6]--19.69 inches

5/, 6/ See page 6.

Table 39.--Mean temperature, 1946-1961

Period	Temperature		Period	Temperature	
	Mean	Range[1]		Mean	Range[1]
	°F.	°F.		°F.	°F.
April 1- 5	27	7	July 16-20	58	2
6-10	29	6	21-25	59	3
11-15	32	4	26-31	57	3
16-20	33	6			
21-25	35	5	Aug. 1- 5	56	2
26-30	38	4	6-10	58	3
			11-15	56	4
May 1- 5	39	4	16-20	55	2
6-10	42	3	21-25	53	3
11-15	44	3	26-31	51	3
16-20	46	3			
21-25	48	3	Sept. 1- 5	50	3
26-31	50	4	6-10	49	3
			11-15	48	2
June 1- 5	53	4	16-20	45	3
6-10	55	4	21-25	43	3
11-15	54	4	26-30	40	4
16-20	57	4			
21-25	55	4	Oct. 1- 5	39	3
26-30	58	4	6-10	36	5
			11-15	33	5
July 1- 5	57	3	16-20	30	5
6-10	58	3	21-25	29	7
11-15	59	4	26-31	27	9

1/ Range--one standard deviation.

TALKEETNA

Table 40.--Mean extreme temperatures, growing degree days, dry days, and precipitation by periods, 1946-1961

Period	Mean temperatures		Growing degree days		Dry days		Precipitation	
	Min.	Max.	Mean	Range 1/	Mean	Range 1/	Mean	Range 1/
	°F.	°F.			Percent	Percent	Inches	Inches
April 1- 5	14	39	0	0	70	34	.20	.37
6-10	17	41	0	0	71	29	.10	.14
11-15	20	44	0	0	82	23	.08	.14
16-20	23	43	0	0	79	26	.10	.13
21-25	24	46	0	0	78	24	.17	.30
26-30	26	50	2	3	88	20	.07	.12
May 1- 5	27	51	2	4	75	30	.33	.54
6-10	30	54	7	9	78	18	.08	.10
11-15	33	54	10	10	66	23	.19	.24
16-20	34	57	16	13	64	22	.16	.14
21-25	36	60	28	16	70	28	.12	.16
26-31	39	61	44	22	54	28	.28	.21
June 1- 5	41	65	51	21	72	26	.12	.22
6-10	44	66	61	20	66	27	.37	.69
11-15	43	63	53	18	59	35	.38	.59
16-20	45	68	69	21	66	29	.36	.35
21-25	45	65	62	21	52	28	.42	.54
26-30	47	68	75	21	68	28	.16	.25
July 1- 5	47	67	72	15	56	32	.46	.57
6-10	48	68	76	15	68	35	.27	.42
11-15	48	70	81	23	62	35	.38	.64
16-20	49	67	76	10	45	30	.56	.54
21-25	48	68	78	16	54	30	.50	.51
26-31	48	65	82	16	37	30	1.33	1.08
Aug. 1- 5	47	65	65	10	45	27	.82	.64
6-10	47	68	73	15	55	34	.54	.46
11-15	46	66	66	19	61	30	.55	.72
16-20	44	65	58	12	54	25	.45	.46
21-25	44	61	49	16	31	22	1.26	1.44
26-31	42	61	51	18	49	28	1.03	1.05
Sept. 1- 5	40	60	37	16	44	31	.61	.56
6-10	40	57	30	14	35	31	.86	.73
11-15	38	58	27	12	49	21	.76	.64
16-20	35	54	13	11	52	28	.97	1.08
21-25	34	51	8	7	48	26	.78	.75
26-30	32	49	4	6	45	34	.83	.98
Oct. 1- 5	30	47	3	6	58	25	.45	.54
6-10	27	44	1	1	64	28	.29	.28
11-15	26	41	0	0	60	25	.31	.35
16-20	22	39	0	1	55	30	.44	.46
21-25	20	37	0	1	74	25	.25	.34
26-31	19	34	0	0	60	28	.67	.63

1/ Range--one standard deviation.

TANANA[5/]

Latitude.--65°10' Longitude.--152°06' Elevation.--232 feet

Mean annual precipitation.[6/]--12.89 inches

Mean precipitation, April 1-October 31.[6/]--9.81 inches

5/, 6/ See page 6.

Table 41.--Mean temperature, 1946-1961

Period	Temperature		Period	Temperature	
	Mean	Range[1/]		Mean	Range[1/]
	°F.	°F.		°F.	°F.
April 1- 5	13	10	July 16-20	59	3
6-10	20	9	21-25	59	4
11-15	20	6	26-31	57	6
16-20	24	10			
21-25	30	8	Aug. 1- 5	55	4
26-30	34	7	6-10	55	3
			11-15	55	5
May 1- 5	36	8	16-20	54	4
6-10	40	6	21-25	52	5
11-15	43	4	26-31	49	4
16-20	48	4			
21-25	50	4	Sept. 1- 5	47	4
26-31	52	3	6-10	47	5
			11-15	44	4
June 1- 5	55	6	16-20	40	4
6-10	57	4	21-25	37	4
11-15	56	4	26-30	33	4
16-20	59	6			
21-25	56	5	Oct. 1- 5	31	5
26-30	58	5	6-10	28	6
			11-15	23	6
July 1- 5	59	5	16-20	21	7
6-10	59	4	21-25	17	9
11-15	61	5	26-31	14	7

1/ Range--one standard deviation.

Table 42.--Mean extreme temperatures, growing degree days, dry days, and precipitation by periods, 1946-1961

Period	Mean temperatures		Growing degree days		Dry days		Precipitation	
	Min.	Max.	Mean	Range 1/	Mean	Range 1/	Mean	Range 1/
	°F.	°F.			Percent	Percent	Inches	Inches
April 1- 5	0	26	0	0	79	27	.07	.13
6-10	8	31	0	0	84	22	.07	.11
11-15	7	33	0	0	90	18	.02	.05
16-20	12	36	0	0	92	12	.08	.26
21-25	19	40	0	1	89	21	.04	.09
26-30	23	45	3	8	92	12	.04	.15
May 1- 5	26	46	3	6	88	22	.04	.08
6-10	29	51	6	9	94	10	.02	.03
11-15	32	54	10	11	82	19	.08	.14
16-20	36	59	26	16	75	22	.26	.52
21-25	38	61	36	19	65	30	.18	.22
26-31	40	63	53	20	79	24	.15	.25
June 1- 5	41	68	59	28	76	28	.12	.21
6-10	44	69	68	21	81	25	.10	.14
11-15	45	67	66	20	68	27	.33	.50
16-20	46	70	78	28	72	28	.14	.16
21-25	44	67	65	24	70	19	.21	.22
26-30	47	69	76	23	66	30	.23	.24
July 1- 5	47	70	78	25	60	27	.31	.29
6-10	48	70	78	20	70	28	.24	.30
11-15	48	74	91	27	81	30	.21	.47
16-20	47	70	80	17	68	25	.25	.28
21-25	47	70	79	22	74	19	.31	.46
26-31	47	66	82	28	55	34	.59	.57
Aug. 1- 5	45	64	61	18	59	27	.32	.31
6-10	45	66	62	13	60	33	.35	.42
11-15	44	65	60	26	59	29	.24	.24
16-20	44	63	54	22	65	30	.44	.63
21-25	42	61	45	22	58	29	.48	.49
26-31	40	58	38	22	47	32	.66	.76
Sept. 1- 5	37	56	22	19	69	23	.28	.26
6-10	38	55	25	18	55	21	.48	.42
11-15	35	53	13	12	61	28	.19	.26
16-20	31	49	6	6	66	27	.33	.38
21-25	29	44	2	3	72	34	.20	.32
26-30	26	40	0	0	69	30	.29	.58
Oct. 1- 5	24	37	0	0	68	32	.18	.24
6-10	20	34	0	0	69	25	.08	.11
11-15	16	30	0	0	80	26	.08	.16
16-20	15	27	0	0	69	26	.16	.20
21-25	9	24	0	0	72	25	.08	.10
26-31	7	21	0	0	73	23	.11	.12

1/ Range--one standard deviation.

UNIVERSITY AGRICULTURAL EXPERIMENT STATION [5]

Latitude.--64°51' Longitude.--147°52' Elevation.--481 feet

Mean annual precipitation. [6]--12.31 inches

Mean precipitation, April 1-October 31. [6]--9.35 inches

[5], [6] See page 6.

Table 43.--Mean temperature, 1946-1961

Period	Temperature		Period	Temperature	
	Mean	Range [1]		Mean	Range [1]
	°F.	°F.		°F.	°F.
April 1- 5	21	10	July 16-20	61	3
6-10	25	8	21-25	60	4
11-15	28	5	26-31	59	4
16-20	30	10			
21-25	34	7	Aug. 1- 5	57	4
26-30	38	7	6-10	58	4
			11-15	58	5
May 1- 5	40	7	16-20	55	4
6-10	44	5	21-25	54	5
11-15	46	4	26-31	52	4
16-20	50	3			
21-25	52	4	Sept. 1- 5	50	4
26-31	53	3	6-10	49	4
			11-15	47	4
June 1- 5	56	6	16-20	43	5
6-10	59	5	21-25	40	5
11-15	57	4	26-30	36	5
16-20	60	5			
21-25	58	4	Oct. 1- 5	35	4
26-30	59	5	6-10	31	6
			11-15	26	8
July 1- 5	60	4	16-20	25	7
6-10	61	3	21-25	22	9
11-15	62	5	26-31	19	9

[1] Range--one standard deviation.

Table 44.--Mean extreme temperatures, growing degree days, dry days, and precipitation by periods, 1946-1961

Period		Mean temperatures		Growing degree days		Dry days		Precipitation	
		Min.	Max.	Mean	Range 1/	Mean	Range 1/	Mean	Range 1/
		°F.	°F.			Percent	Percent	Inches	Inches
April	1- 5	8	34	0	0	75	29	.08	.15
	6-10	12	38	0	0	81	28	.06	.12
	11-15	15	40	0	0	85	27	.05	.15
	16-20	17	42	2	4	95	12	.02	.06
	21-25	22	46	1	2	89	16	.05	.09
	26-30	26	50	7	16	91	16	.06	.14
May	1- 5	28	52	9	13	88	19	.03	.05
	6-10	31	57	16	14	82	19	.06	.09
	11-15	32	58	18	14	80	16	.08	.09
	16-20	36	64	36	16	84	20	.12	.23
	21-25	39	65	47	22	61	29	.20	.21
	26-31	40	66	62	19	66	24	.32	.43
June	1- 5	41	70	64	32	80	19	.12	.20
	6-10	45	73	80	23	75	24	.13	.17
	11-15	44	70	71	18	61	30	.34	.45
	16-20	46	73	84	27	70	28	.22	.23
	21-25	46	70	75	21	59	27	.47	.49
	26-30	47	72	82	25	54	26	.34	.27
July	1- 5	47	72	84	21	56	29	.48	.41
	6-10	47	73	88	16	69	33	.18	.22
	11-15	48	76	95	26	74	23	.30	.44
	16-20	49	73	92	14	58	25	.45	.56
	21-25	47	73	86	20	51	27	.58	.69
	26-31	48	59	95	26	45	19	.51	.40
Aug.	1- 5	45	68	70	20	56	26	.26	.21
	6-10	45	70	74	18	61	24	.42	.52
	11-15	45	69	73	25	62	24	.29	.31
	16-20	43	68	62	20	65	30	.21	.24
	21-25	42	65	56	21	46	24	.52	.64
	26-31	40	62	52	25	49	32	.49	.52
Sept.	1- 5	38	61	35	21	60	35	.30	.37
	6-10	37	60	32	18	70	21	.14	.19
	11-15	37	58	24	16	55	37	.30	.43
	16-20	32	53	12	12	60	29	.25	.32
	21-25	30	50	7	10	66	24	.21	.31
	26-30	28	45	2	4	65	30	.30	.42
Oct.	1- 5	26	43	2	4	65	34	.16	.22
	6-10	22	39	0	2	80	22	.09	.13
	11-15	18	34	0	0	72	24	.11	.13
	16-20	16	33	0	0	71	28	.12	.13
	21-25	13	30	0	0	68	26	.12	.09
	26-31	11	27	0	0	62	30	.20	.36

1/ Range--one standard deviation.

Table 45.--Mean precipitation and cumulative growing degree days, April 1 to October 31, for all stations

Station	Precipitation 1/	Growing degree days
	Inches	Number
Aniak	15.32	1152
Big Delta	9.83	1618
Circle Hot Springs	8.16	1550
Eagle	8.55	1523
Flat	13.41	1328
Fort Yukon	4.53	1626
Galena	9.19	1552
Gulkana	8.60	1292
Holy Cross	12.69	1346
Hughes	9.59	1501
Iliamna	21.18	1117
Kenai	11.41	1064
Lake Minchumina	9.03	1529
Manley Hot Springs	11.25	1445
Matanuska Agricultural Experiment Station	11.55	1525
McGrath	13.16	1426
Nenana	8.46	1470
Northway	9.44	1381
Skwentna	18.48	1456
Talkeetna	19.69	1430
Tanana	9.81	1425
University Agricultural Experiment Station	9.35	1694
Mean, all stations	11.49	1430

1/ See footnote 6, page 6.

GPO 987-930